Assignment - 3
(Code Structure Measurement)

Course Code : SE 3204
Course Title : Software Metrics

Submitted To:

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Noakhali Science and Technology University (NSTU)

Table of Contents

Table of Figures

Code Structure Measurement

Code Structure measurement refers to the process of quantitatively evaluating the various aspects of a codebase's structure. The purpose of measuring code structure is to identify areas that may require improvement, as well as monitor changes in codebase over time. Code Structure can be measured by

1. Control Flow Structure
2. Data Flow Structure

Code Structure Measurement for SPL-I Project

Aboutus

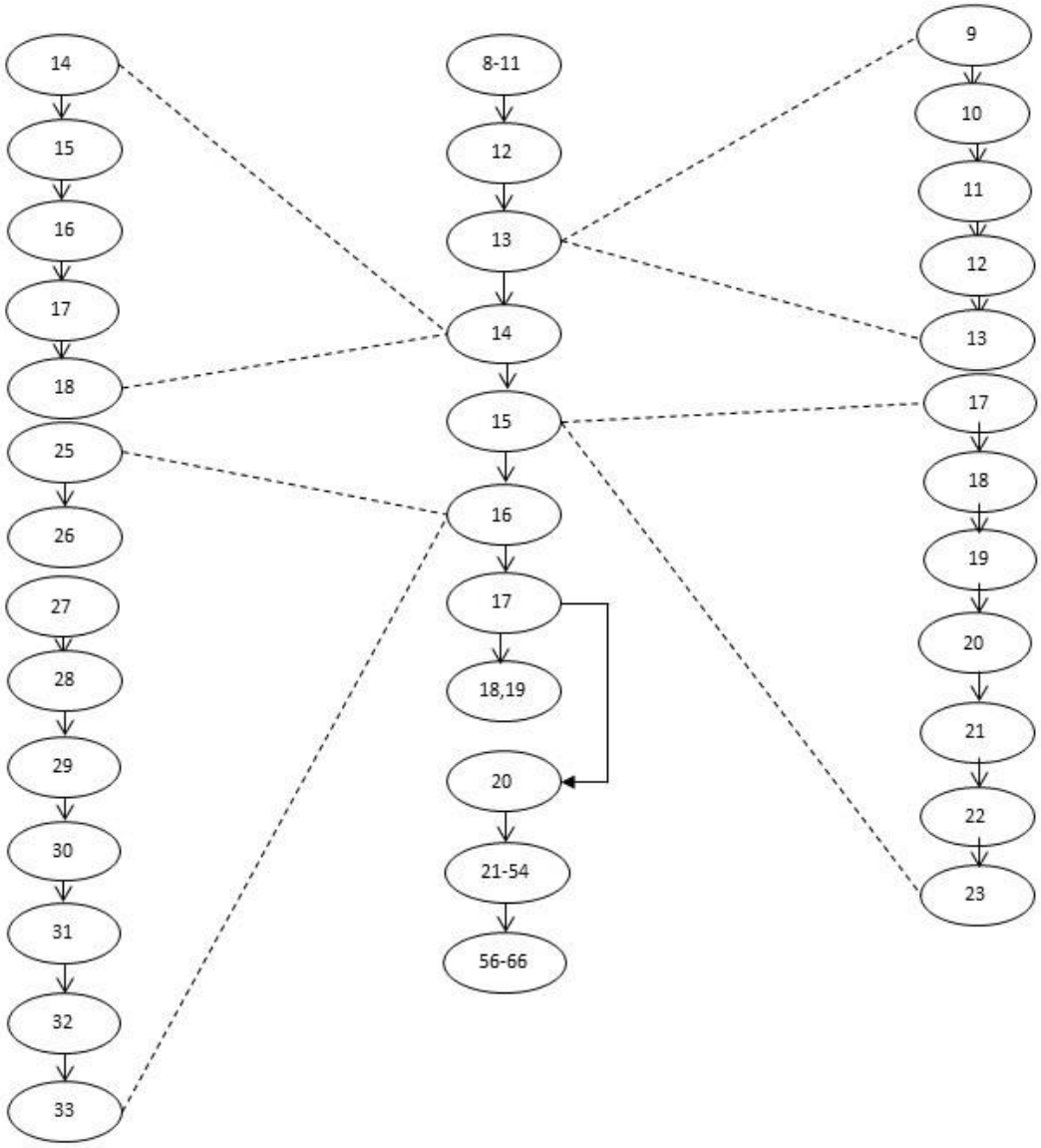

Figure 1: Aboutus

Back_Button

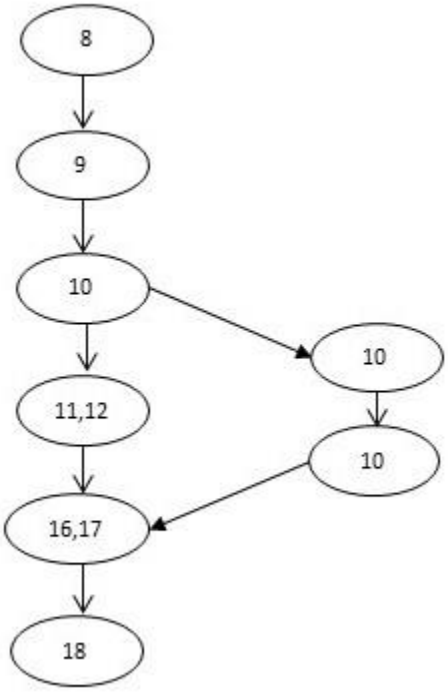

Figure 2: Back_Button

Basic_Frame_Duplicity

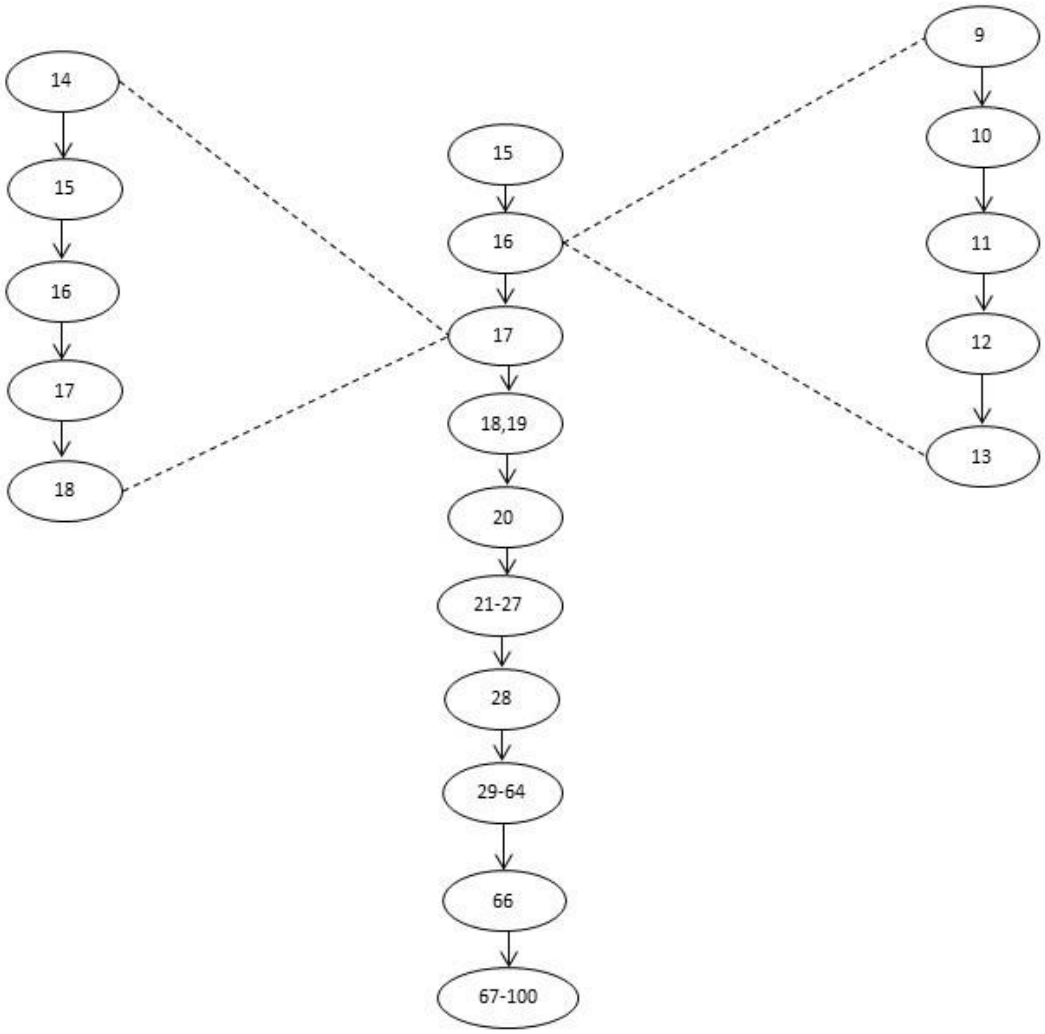

Figure 3: Basic_Frame_Duplicity

ButtonSound

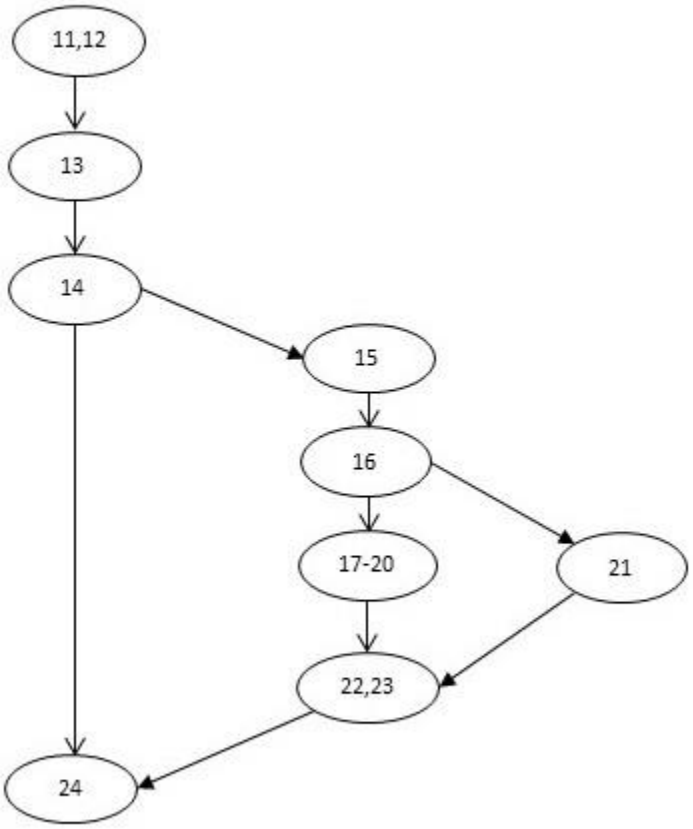

Figure 4: ButtonSound

Check_Extension

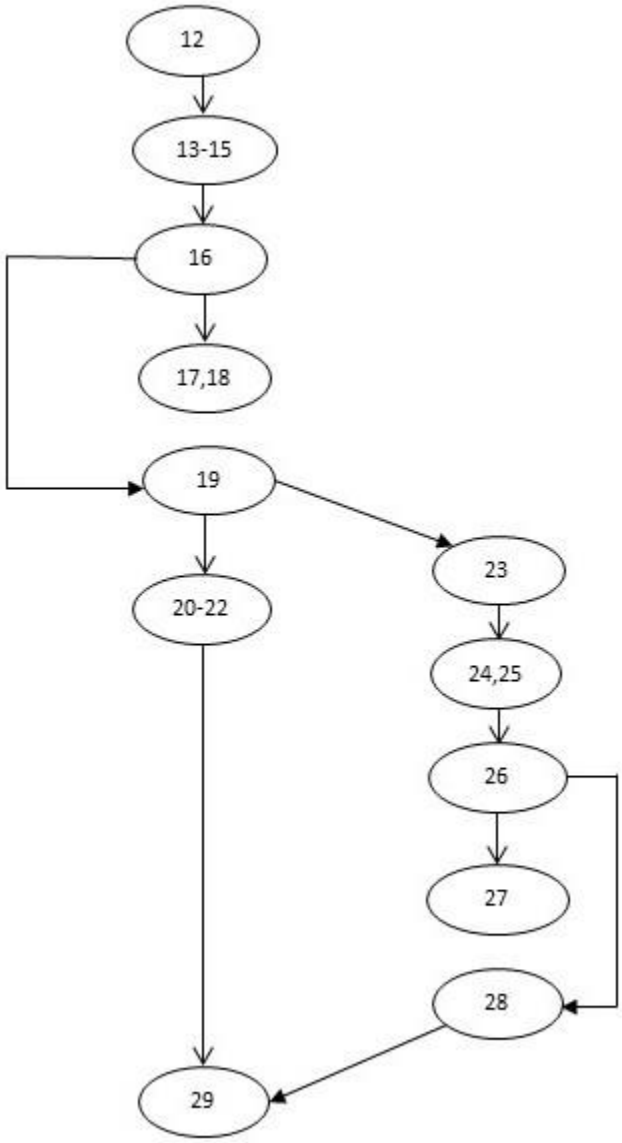

Figure 5: Check_Extension

fileRead

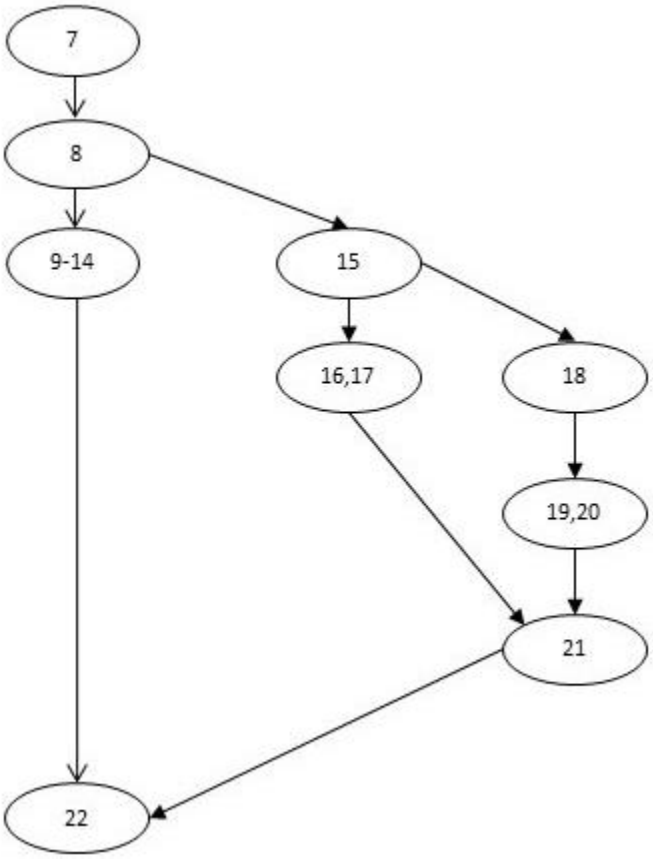

Figure 6: fileRead

Frame_Container_Template

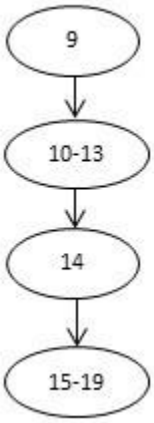

Figure 7: Frame_Container_Template

highlight

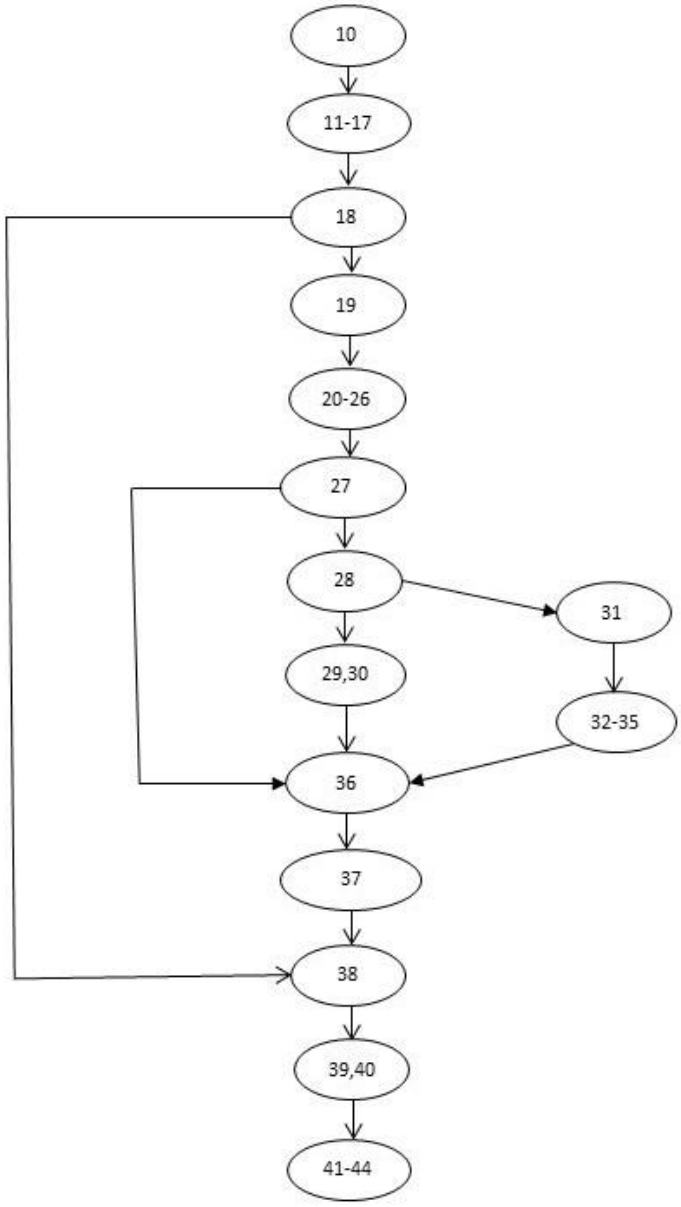

Figure 8: highlight

Home

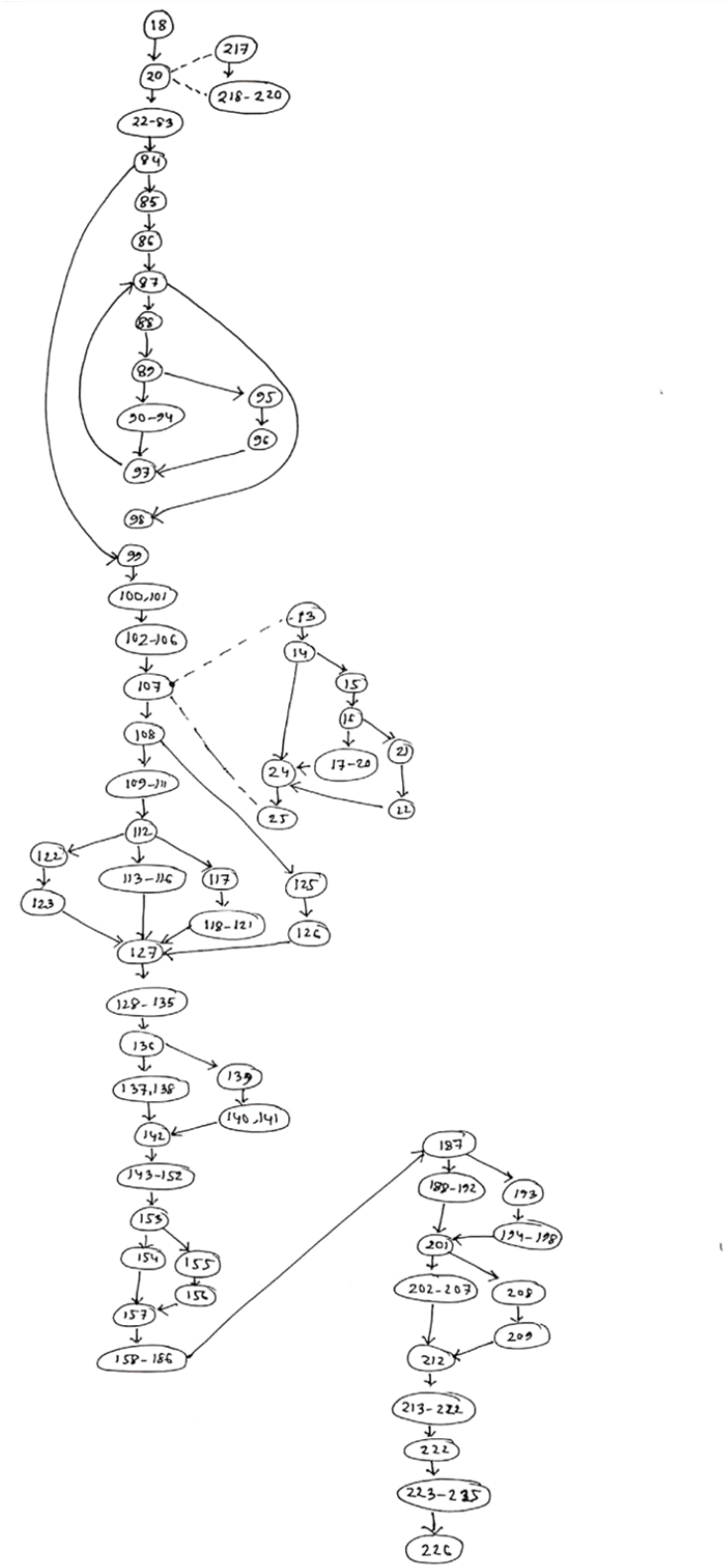

Figure 9: Home

Panel_BackButton

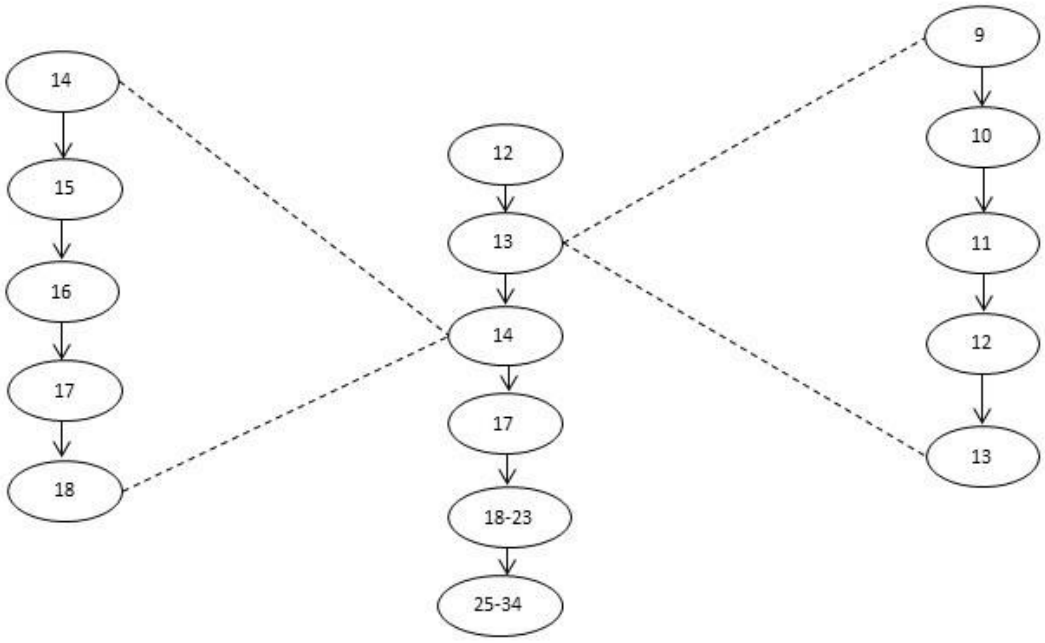

Figure 10: Panel_BackButton

save_file

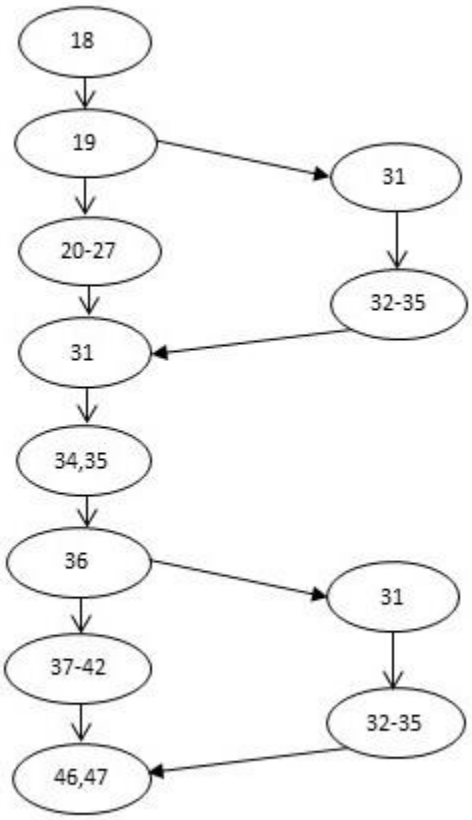

Figure 11: save_file

sorting_result

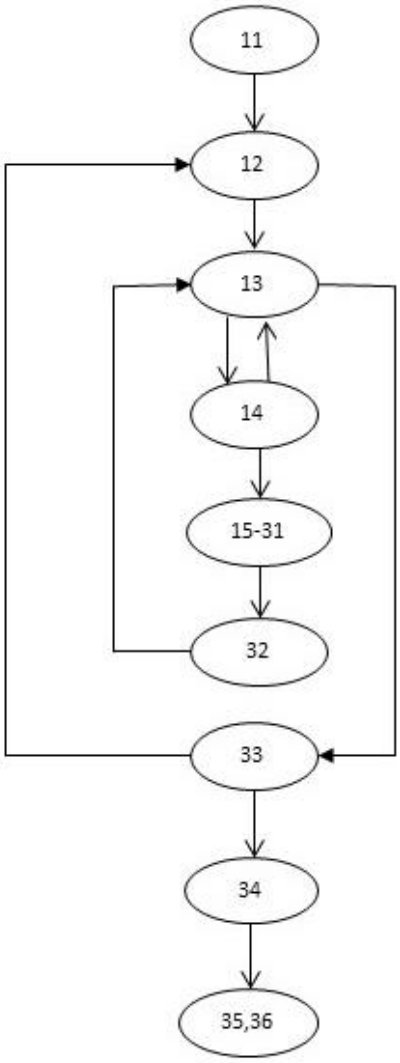

Figure 12: sorting_result

Splash_Screen

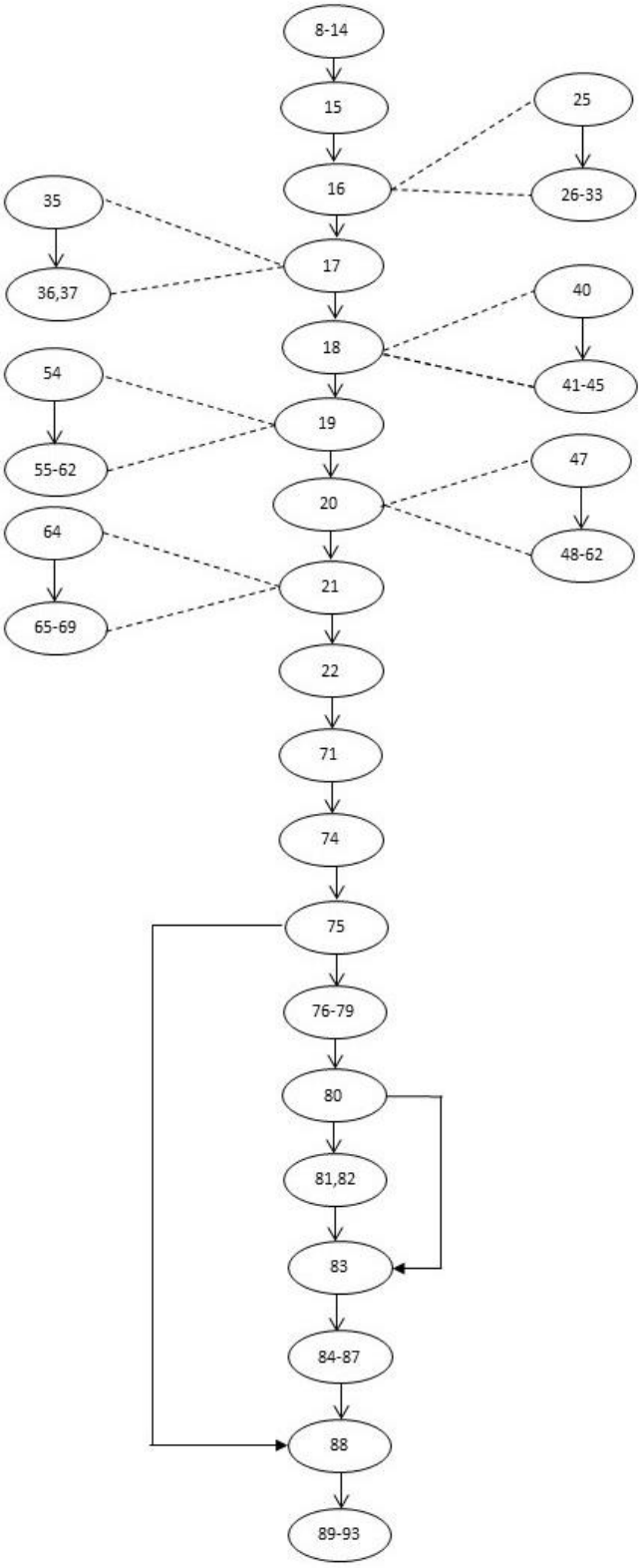

Figure 13: Splash_Screen

User_GuideLines

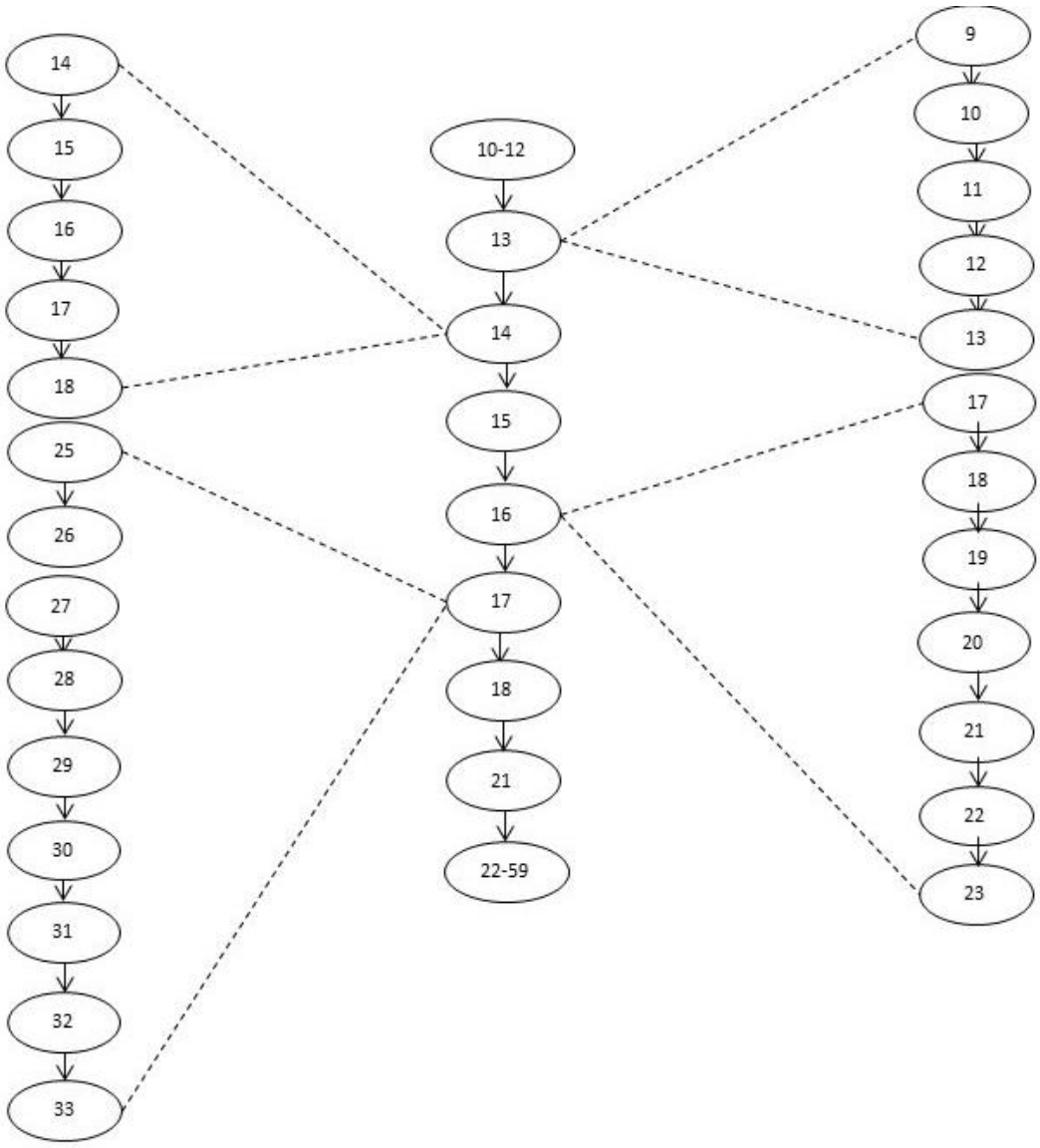

Figure 14: User_GuideLines

Complexity of the classes

Class	Complexity
Aboutus	3
Back_Button	1
Basic_Frame_Duplicity	4
ButtonSound	3
Capitalization	117
Check_Extension	4
Duplicity_Folder	84
Duplicity_Random_Files	70
fileRead	2
Frame_Container_Template	2
highlight	8
Home	14
MainClass	1
Panel_Back_Button	3
save_file	2
Sorting_result	4
Spell_Check	23
SplashScreen	11
User_GuideLines	3